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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/880,089	06/14/2001	Shunpei Yamazaki	0756-2325	3837	
22204 7	7590 06/12/2003				
NIXON PEABODY, LLP 8180 GREENSBORO DRIVE SUITE 800			EXAMINER		
			VU, DAVID		
MCLEAN, VA 22102			ART UNIT	PAPER NUMBER	
			2818	2818 DATE MAILED: 06/12/2003	
			DATE MAILED: 06/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/880,089	YAMAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	DAVID VU	2818				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status	06/02					
1) Responsive to communication(s) filed on <u>03/2</u>						
, <u> </u>	is action is non-final.	proceeding as to the merits is				
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
4) Claim(s) 1-50 is/are pending in the application	l.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-50</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>14 June 2001</u> is/are: a)	•					
Applicant may not request that any objection to the						
11) ☐ The proposed drawing correction filed on	_ is: a)	proved by the Examiner.				
If approved, corrected drawings are required in re						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	9(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority document 						
Certified copies of the priority document						
3. Copies of the certified copies of the prio application from the International Bu* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 11	9(e) (to a provisional application).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language;

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-50 are rejected under 35 USC 102 (e) as being anticipated by Yamazaki et al 1. (US 2002/0008286).

In re claims 1, 6-7; 11, 16-17; 21, 26-27; 31, 36-37; 41 and 46-47; Yamazaki et al, in related text {[0121]-[0130]} and figures (Figs. 19A-19E) disclose a semiconductor device comprising thin film transistors in a pixel portion and in a driver circuit formed over a same insulating surface, semiconductor device comprising: an electrode on insulating surface; an insulating film covering electrode; a semiconductor layer having at least a channel-forming region, a source region, and a drain region on insulating film, channelforming region comprising: silicon and germanium; nitrogen and carbon at less than 5x10¹⁸/cm³ as detected by SIMS; oxygen at less than $1x10^{19}$ /cm³ as detected by SIMS [0074]; and a plurality of crystal planes as measured by EBSP method [0019] in which an electron beam of 20 nm or less [0021] in a spot diameter is irradiated to a plurality of different points of said

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channel-forming region, wherein ratios of plurality of crystal planes which form an angle equal to or less than 10° with a substrate surface is larger or equal to 20% in [101] plane, less than or equal to 3% in [001] plane, and less than or equal to 5% in [111] plane [0013]

In re claims 2, 12, 22, 32 and 42, wherein germanium contained in channel-forming region is larger than or equal to 0.1 atom %, and less than or equal to 10 atom % [0014]

In re claims 3, 13, 23, 33 and 43, wherein channel-forming region has a germanium concentration gradient in which germanium concentration becomes larger with increasing a distance from an interface with insulating film [0071]

In re claims 4, 14, 24, 34 and 44, wherein a concentration of a metal element contained in channel-forming region is less than $1 \times 10^{17} / \text{cm}^3$ [0012]

In re claims 5, 15, 25, 35 and 45, wherein metal element is one or a plurality of elements selected from the group consisting of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu, and Au. [0016]

In re claims 8, 18, 28, 38 and 48, wherein a thickness of semiconductor layer is between 20 and 100 nm [0012]

In re claims 9, 19, 29, 39 and 49, wherein semiconductor device is an electroluminescence display device [0130]

In re claims 10, 20, 30, 40 and 50, wherein semiconductor device is one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle-type display, a digital camera, a projector, and a mobile telephone [0153]

2. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

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Response to Arguments

3. Applicant's arguments filed on 03/26/03 have been fully considered but they are not persuasive. Since no translation of the foreign language priority document (Paper No.6) has been submitted. The rejection remains from the previous office action.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is 703-305-0391. The examiner can normally be reached on Monday-Friday 8:00am-5: 30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DV

David Vu.

David Nelms
Supervisory Patent Examiner
Technology Center 2800